

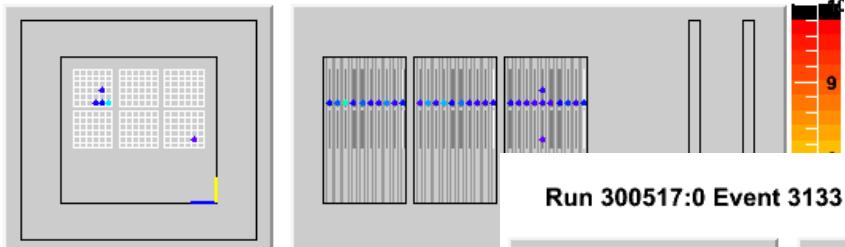
# CALICE TCMT software work @ NIU

- Online monitoring package: Monitor  
TCMT development, maintenance and support for data quality at TB site
- TCMT geometry drivers in Mokka:  
maintenance and support for TCMT simulation
- Official TCMT reconstruction packages in Marlin  
hit reconstruction and selection, in collaboration with S. Schmidt, B.Lutz et.al. (DESY)
- Digitization framework and modifiers  
noise, x-talk, E-threshold & hit ganging (simulation  $5 \times 5 \text{cm}^2$  cells --> real  $5 \times 100 \text{cm}^2$  strips)
- Support Java-based processing of CALICE data: JAS3+org.lcsim+Wired  
Directed tree clustering in TB data, analysis and interactive event display (under way)

Run 300517:0 Event 3133

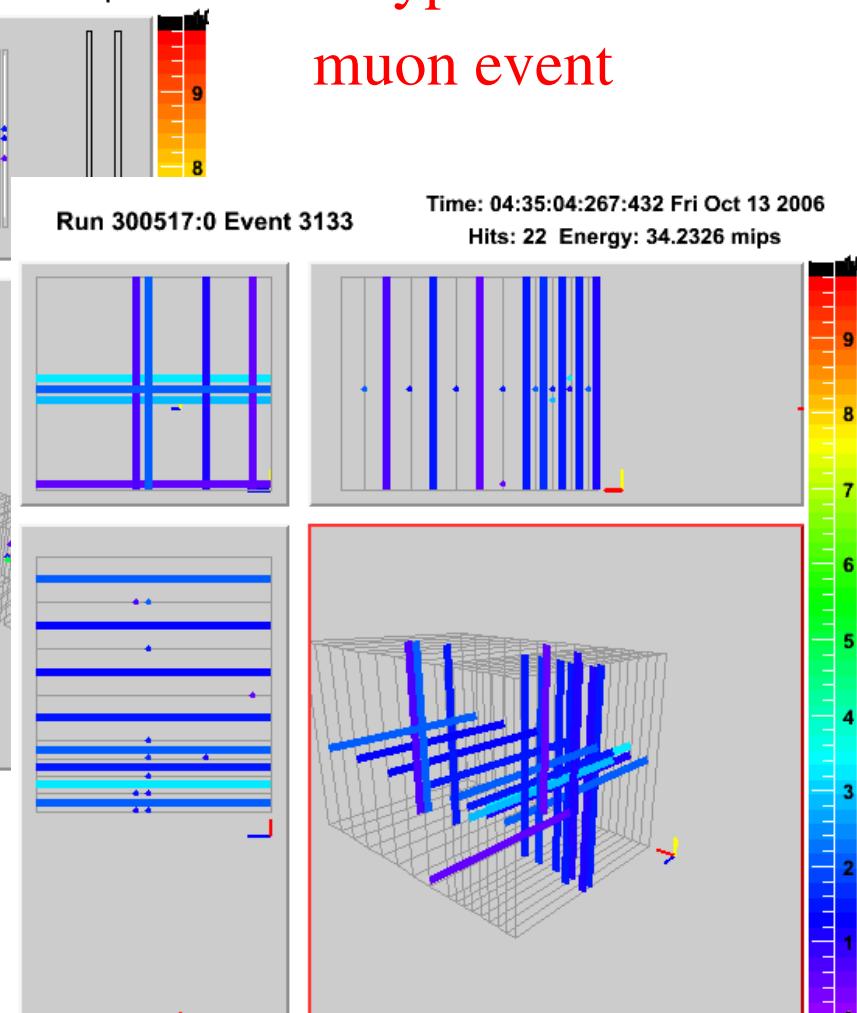
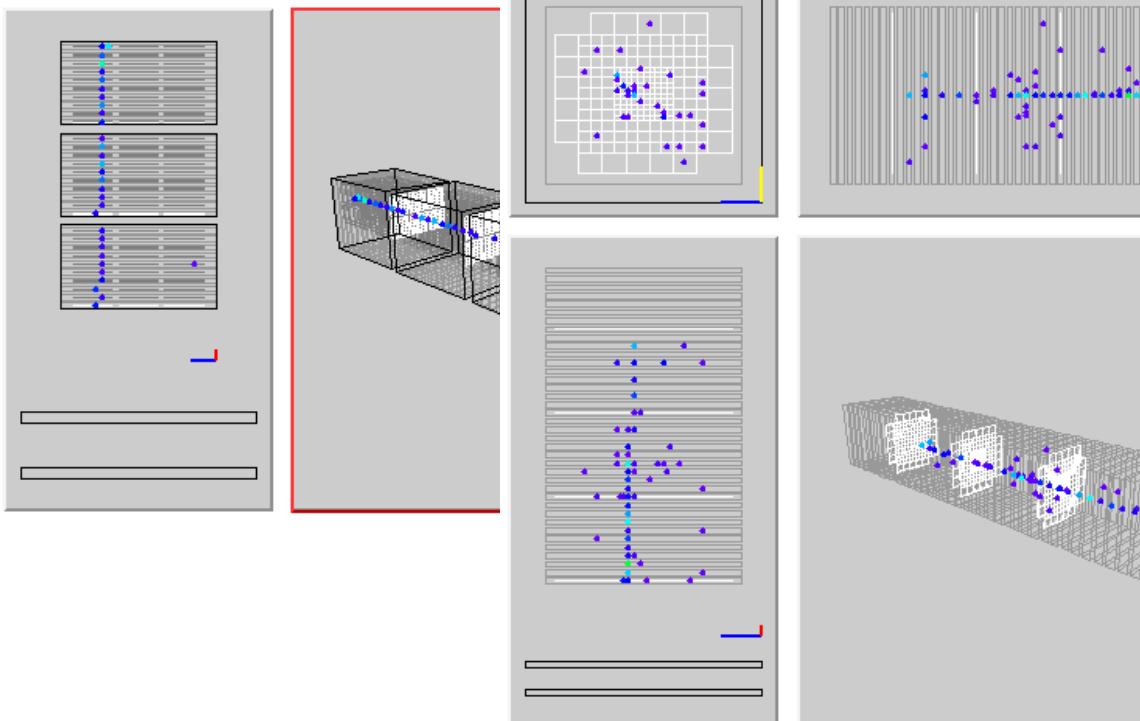
Time: 04:35:04:267:432 Fri Oct 13 2006

Hits: 33 Energy: 47.7336 mips



## TCMT monitoring + event display

A typical  
muon event



- Add TCMT-specific classes to the root-based Monitor package, by G.Mavromanolakis



# TCMT reco + analysis packages (Marlin)

For reference, here is the partial list of Marlin processors used for real data

Thanks to S.Schmidt et.al.  
(DESY) for support and for providing lots of code and calibration constants!!!

(...)

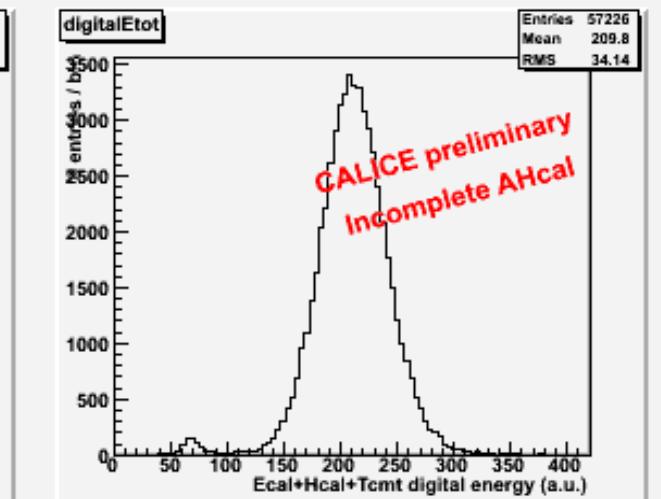
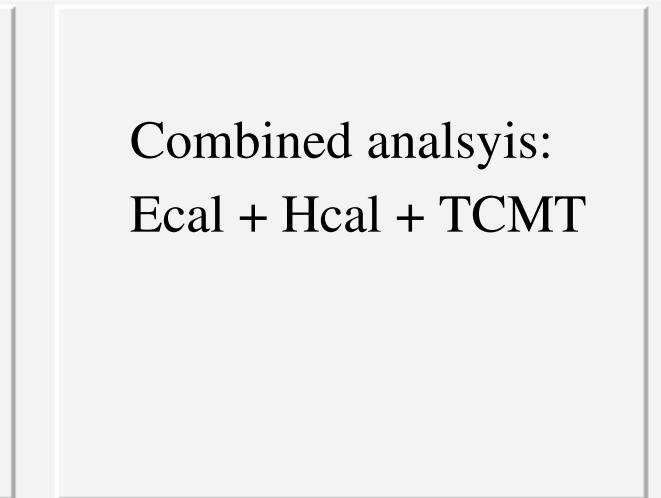
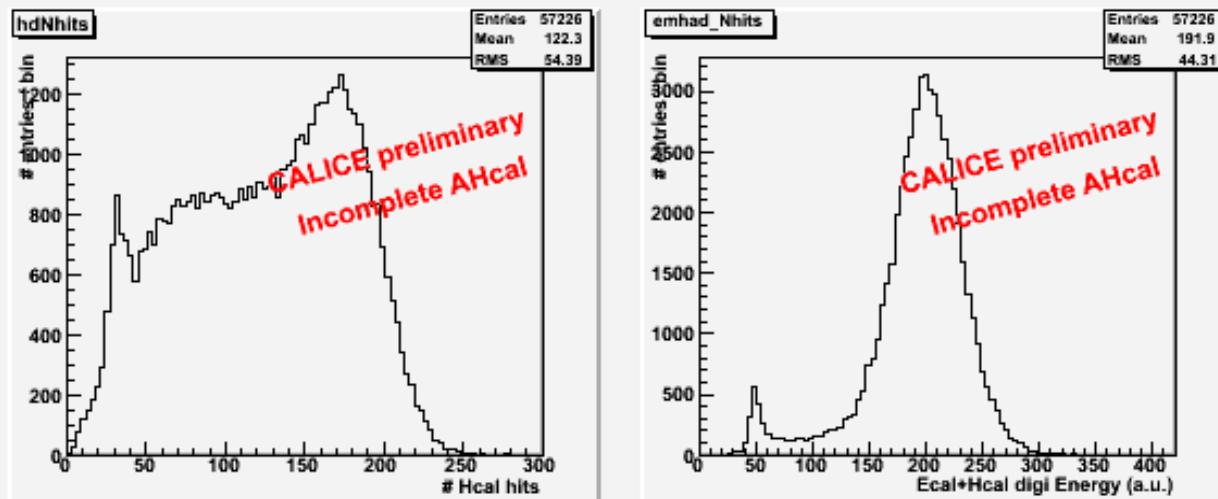
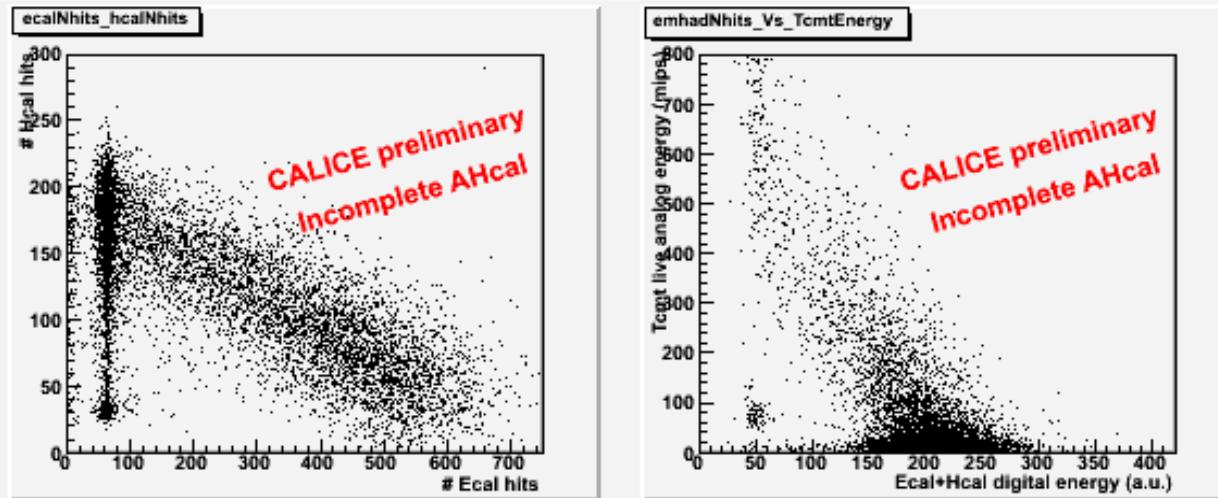
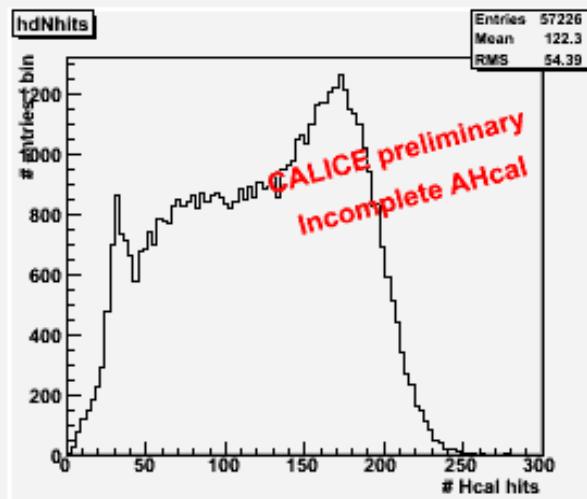
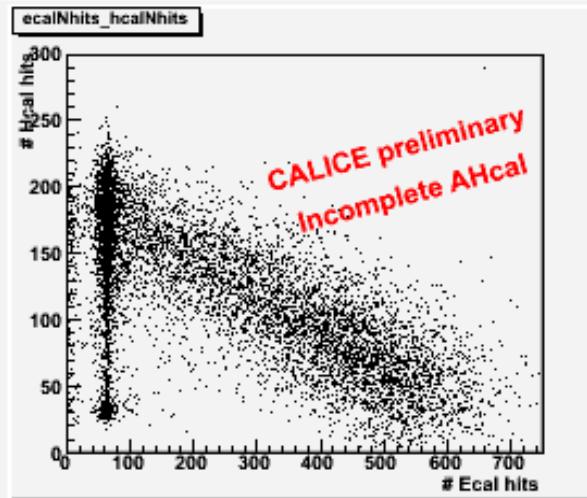
```
### AHcal Processors
ActiveProcessors MyFastMappingIProcessor
ActiveProcessors MyPedestalOnTheFlyProcessor
ActiveProcessors MyFastInterCalibrationProcessor
ActiveProcessors MyFastGainCalibrationProcessor
ActiveProcessors MyFastSaturationCalibrationProcessor
ActiveProcessors MyFastMIPCalibrationProcessor
#
ActiveProcessors MySimpleHcalCalibrationProcessor
ActiveProcessors MyFastMappingIIProcessor
### TCMT Processors
##
ActiveProcessors tcmtMappingIProcessor
ActiveProcessors tcmtMappingI
ActiveProcessors tcmtPedestalSubtraction
ActiveProcessors tcmtMipCalibration
ActiveProcessors tcmtMappingII
#
### Guilherme's stuff
ActiveProcessors GLAnalyzer
ActiveProcessors MyBasicAnalysis
#
ActiveProcessors GLHitCollections
#
ActiveProcessors GLMuonCalib
#
ActiveProcessors GLLEDCalib
### other miscellaneous stuff
#
ActiveProcessors MyLCIOOutputProcessor
#
ActiveProcessors MyCollectionHistogrammer
#
ActiveProcessors GlobalHistogramOutput
#
ActiveProcessors MyEventSeparator
#
ActiveProcessors MyProgressHandler
```

(...)

TCMT

analysis

# CALICE test beam: preliminary results



# CALICE test beam: preliminary results

